INSTRUCTION MANUAL

Sensitive Research*

INSTRUMENTS

PARTS LIST

FOR

MODEL ESH

* A TRADEMARK OF EIS

ELECTRICAL INSTRUMENT SERVICE, INC.

25 Dock Street, Mount Vernon, N.Y. 10550

914 OW 9-9717

SPARE PARTS LIST

MODEL ESH SINGLE RANGE - TO 30 KV **SECTION** 1

CUSTOMER **CONTRACT NUMBER**

ITEM NUMBER	PART NUMBER		DESCRIPTION	RECOMMENDED S.R.I.C. REPAIR	RECOMMENDED CUSTOMER REPAIR	PIECES PER ASSEMBLY
	EIS PART NO.	DWG. INDEX NO.	INSTRUMENT CASE PARTS			
	557188-005	ESH-400	CAST ALUMINUM INSTRUMENT CASE AND COVER. BLACK WRINKLE FINISH. (INCLUDES MOUNTING SCREWS FOR COVER)	NO	*	1
	557005-044	ESH-4	CARRYING HANDLE	*	*	1
	557372-031	ESH-39	ZERO CORRECTOR SHAFT AND PINS	NO	*	1
	557040-906	ESH-41	ZERO CORRECTOR BAKELITE THUMB KNOB	*	*	1
	557083-002	ESH-8	RUBBER CASE FEET (SUPPLIED WITH SCREWS AND WASHERS)	*	*	4
	557033-016	ESH-50	CURVED CASE GLASS (SEE DRAWING PLATE NO. 73)	*	*	1
	557003-037	ESH-52	GLASS RETAINING CLIPS AND SCREWS (SEE DRAWING PLATE NO.73)	*	*	2
	557320-030	ESH-401	BINDING POST (BLACK BAKELITE) (SUPPLIED WITH 2 SCREWS AND 4 WASHERS)	*	*	2
	136-0018-001	ESH-403	BINDING POST PLATE	*	*	1
	557372-149	ESH-419A	TRANSIT LOCK KNOB	*	*	1
	136-0185-01	ESH-10	INSTRUMENT NAMEPLATE (SUPPLIED WITH 4 MOUNTING SCREWS)	*	*	1
	557372-033	ESH-39A	FRONT ZERO SLEEVE	*	*	1

(SEE DRAWING PLATE NO. 72)

SPARE PARTS LIST

MODEL ESH SINGLE RANGE TO 30 KV **SECTION** 2

CUSTOMER **CONTRACT NUMBER**

ITEM NUMBER	PART NUMBER		DESCRIPTION	RECOMMENDED SRIC REPAIR	RECOMMENDED CUSTOMER REPAIR		PIECES PER ASSEMBLY
	EIS PART NO.	DWG INDEX NO.	ELECTRODE PARTS				
	128-0137-001	ESH-416	ELECTRODE BODY	NO	*		1
	557028-010	ESH-417A	RANGE ROD, THREADED	NO	*		1
	557320-018	ESH-418A	RANGE SHAFT END KNOB	*	*		1
	172-2001-0403	ESH-419	SET SCREW	*	*		2
	557017-083	ESH-420A	ELECTRODE BUSHING, REAR STOP	*	*		1
	557017-083	ESH-420A	ELECTRODE BUSHING, FRONT STOP	NO	*		1
	557084-003	ESH-423	CASE ELECTRODE BUSHING (SUPPLIED WITH 3 MOUNTING SCREWS)	NO	*		1

(SEE DRAWING PLATE NO. 72)

SPARE PARTS LIST

MODEL ESH SINGLE RANGE TO 30 KV **SECTION** 3

CUSTOMER **CONTRACT NUMBER**

ITEM NUMBER	PART NUMBER		DESCRIPTION	RECOMMENDED SRIC REPAIR	RECOMMENDED CUSTOMER REPAIR		PIECES PER ASSEMBLY
	EIS PART NO.	DWG. INDEX NO	BASEPLATE PARTS				
	557306-001	ESH-100	ALUMINUM BASEPLATE	NO	*		1
	557008-302	ESH-404	POINTER GUARD	*	*		1
	557016-006	ESH-405	POINTER GUARD SCREW	*	*		2
	557017-006	ESH-406	POINTER GUARD WASHER	*	*		2
	557016-044	ESH-408	BASEPLATE MOUNTING SCREW	NO	*		4
	557017-030	ESH-409	BASEPLATE MOUNTING WASHER	NO	*		4
	557015-061	ESH-112	BLANK (UNDRAWN) SCALE PLATE (WHITE SURFACE)	NO	*		1
	557017-077	ESH-410	SCALE PLATE SCREWS	*	*		4
	557628-901	ESH-411	SCALE MOUNTING BRACKET	NO	*		1
	557016-107	ESH-412	SCALE MOUNTING BRACKET SCREW	NO	*		3
	557017-027	ESH-413	SCALE MOUNTING BRACKET WASHER	NO	*		3
	557427-004	ESH-414	BRIDGE SUPPORT PILLAR	NO	*		2
	557016-125	ESH-415	BRIDGE SUPPORT PILLAR SCREW (BOTTOM)	NO	*		2
	557750-012	ESH-425	SCALE PLATE ANTI-PARALLAX MIRROR (FLEXIBLE)	NO	*		1

(SEE DRAWING PLATE NO. 73)

SPARE PARTS LIST

MODEL ESH SINGLE RANGE TO 30 KV **SECTION** 4

CUSTOMER **CONTRACT NUMBER**

ITEM NUMBER	PART NUMBER		DESCRIPTION	RECOMMENDED S.R.I.C. REPAIR	RECOMMENDED CUSTOMER REPAIR		PIECES PER ASSEMBLY
	EIS PART NO.	DWG INDEX NO.	INSTRUMENT MOVEMENT PARTS				
	557801-001	ESH-75	SPRING MOUNTED JEWEL SCREW ASSEMBLY	NO	*		1
	557800-001	ESH-75A	JEWEL SCREW HARD	NO	*		1
	557017-201	ESH-76	JEWEL COLLAR	NO	*		1
	557017-009	ESH-80	SPRING WASHER	NO	*		1
	557017-052	ESH-78	ZERO SHIFTER INSULATOR	NO	*		1
	557017-054	ESH-79	ZERO SHIFTER INNER INSULATING RING	NO	*		1
	557086-005	ESH-93	ZERO SHIFTER	NO	*		1
	557372-119	ESH-94	MOVEMENT BRIDGE	NO	*		1
	557016-040	ESH-426	BRIDGE SUPPORT PILLAR SCREWS (TOP)	NO	*		2
	103-1362-01A	ESH-M-85	INSTRUMENT ROTOR ASSEMBLY FOR 30 KV ELECTROSTATIC INSTRUMENTS COMPLETE WITH HAIRSPRING, PIVOTS, POINTER, BALANCE WEIGHT ARM AND DAMPING VANE - READY FOR USE	NO	*		1
	557041-003	ESH-86	STEEL PIVOT FOR MOVEMENT	NO	*		1
	557041-005	ESH-87	DIAMOND PIVOT FOR MOVEMENT	NO	*		1

NOTE: INSTRUMENT SERIAL NUMBER MUST BE SPECIFIED WHEN ORDERING PARTS.

(SEE DRAWING PLATE NO. 73)

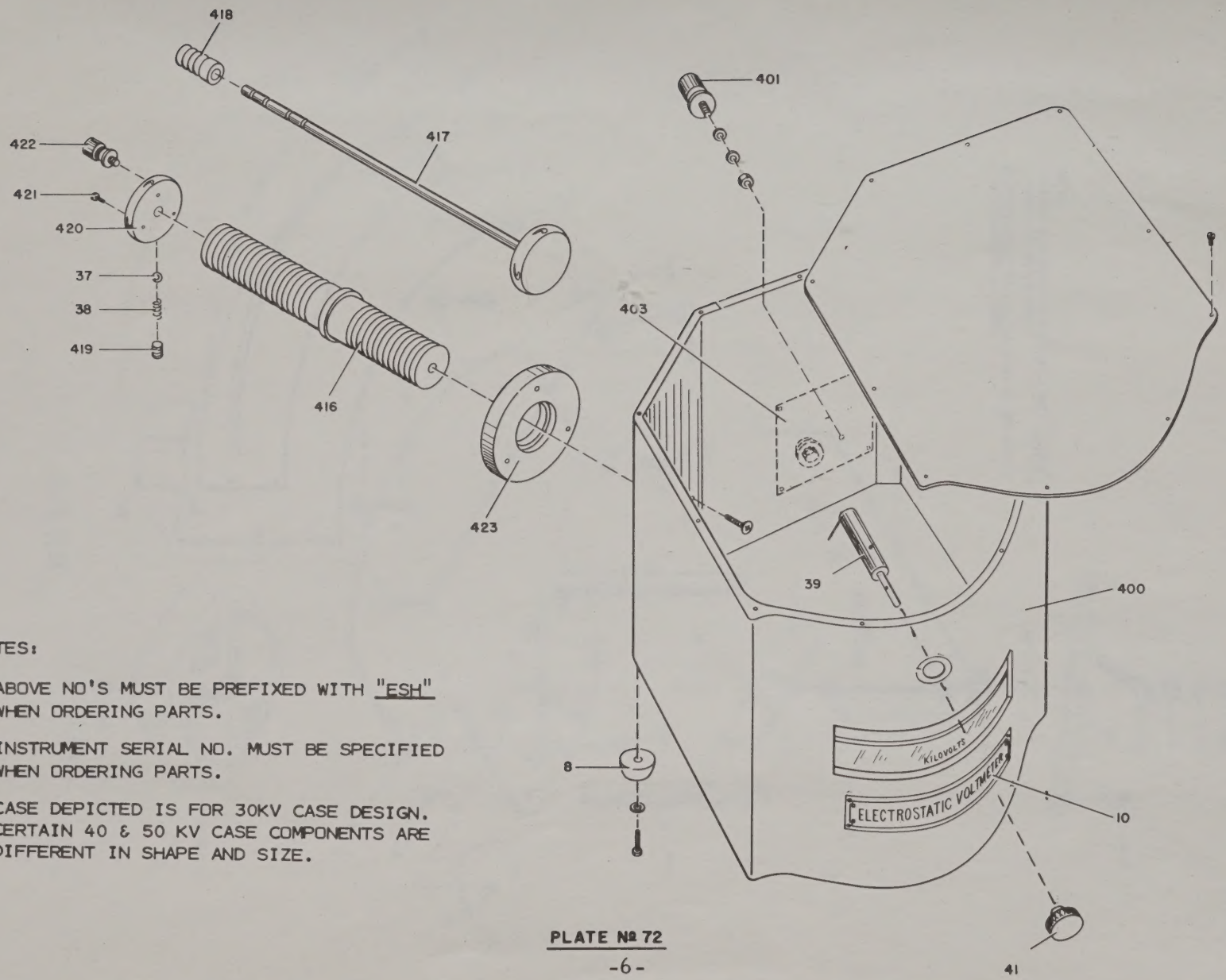
SPARE PARTS LIST

MODEL ESH SINGLE RANGE TO 30 KV **SECTION** 4

CUSTOMER **CONTRACT NUMBER**

ITEM NUMBER	PART NUMBER		DESCRIPTION	RECOMMENDED SRIC REPAIR		PIECES PER ASSEMBLY
	EIS PART NO.	DWG INDEX NO	INSTRUMENT MOVEMENT PARTS	RECOMMENDED CUSTOMER REPAIR		
	557083-302	ESH-88	COMPLETE POINTER WITH FLAG	NO	*	1
	557021-011	ESH-89	MOVEMENT HAIR SPRING FOR ESH-30 KV	NO	*	1
	557021-000	ESH-90	MOVEMENT BALANCING WEIGHT	NO	*	3
	557086-004	ESH-424	FRONT BALANCE WEIGHT ARM	NO	*	1
	557063-001	ESH-316	DAMPING VANE	NO	*	1
	557016-077	ESH-73	VANE CHAMBER COVER MOUNTING SCREWS	NO	*	6
	557063-003	ESH-330	VANE CHAMBER COVER	NO	*	2
	557016-109	ESH-427	VANE CHAMBER MOUNTING SCREW	NO	*	4
	557318-003	ESH-331	MOULDED DAMPING VANE CHAMBER	NO	*	1
	557016-197	ESH-332	BOTTOM JEWEL LOCK PLUG	NO	*	1

(SEE DRAWING PLATE NO. 73)



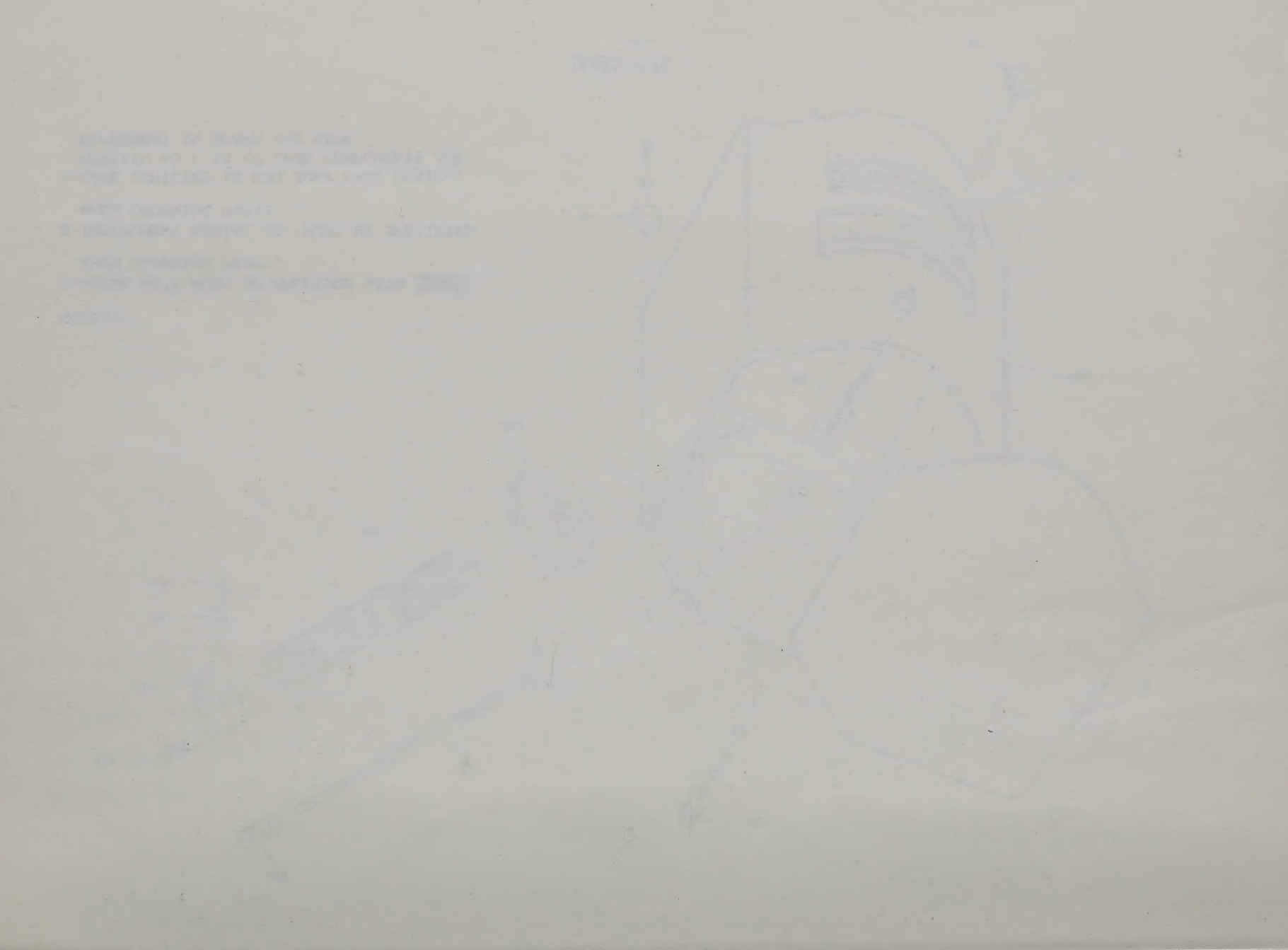
NOTES:

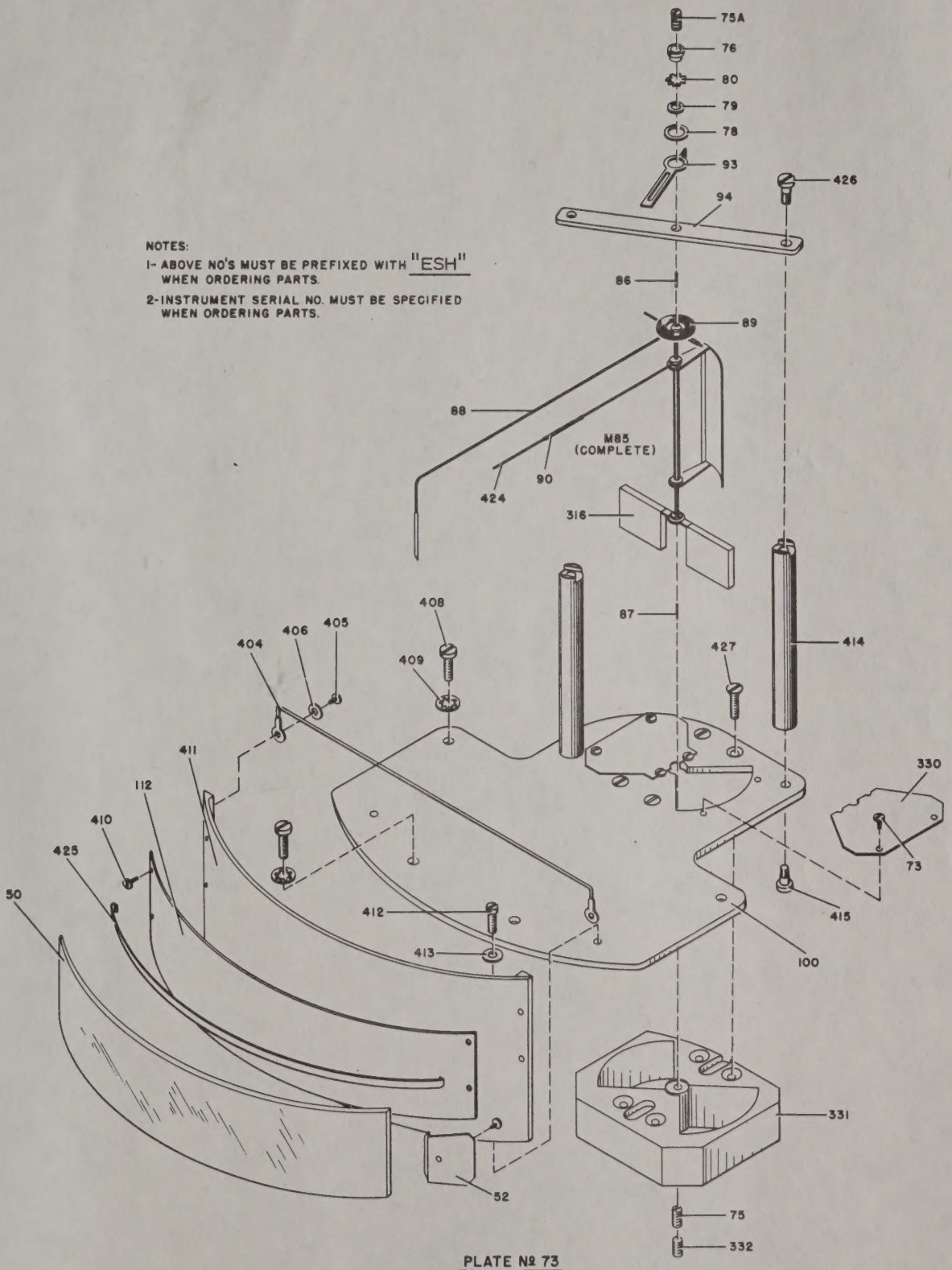
1-ABOVE NO'S MUST BE PREFIXED WITH "ESH" WHEN ORDERING PARTS.

2-INSTRUMENT SERIAL NO. MUST BE SPECIFIED WHEN ORDERING PARTS.

3-CASE DEPICTED IS FOR 30KV CASE DESIGN. CERTAIN 40 & 50 KV CASE COMPONENTS ARE DIFFERENT IN SHAPE AND SIZE.

PLATE № 72




NOTES:
1- ABOVE NO'S MUST BE PREFIXED WITH "ESH" WHEN ORDERING PARTS.
2- INSTRUMENT SERIAL NO. MUST BE SPECIFIED WHEN ORDERING PARTS.
75A
76
80
79
78
93
426
94
86
89
88
M85 (COMPLETE)
90
424
316
87
414
427
408
409
404
406
405
411
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425
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413
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415
100
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52
75
332
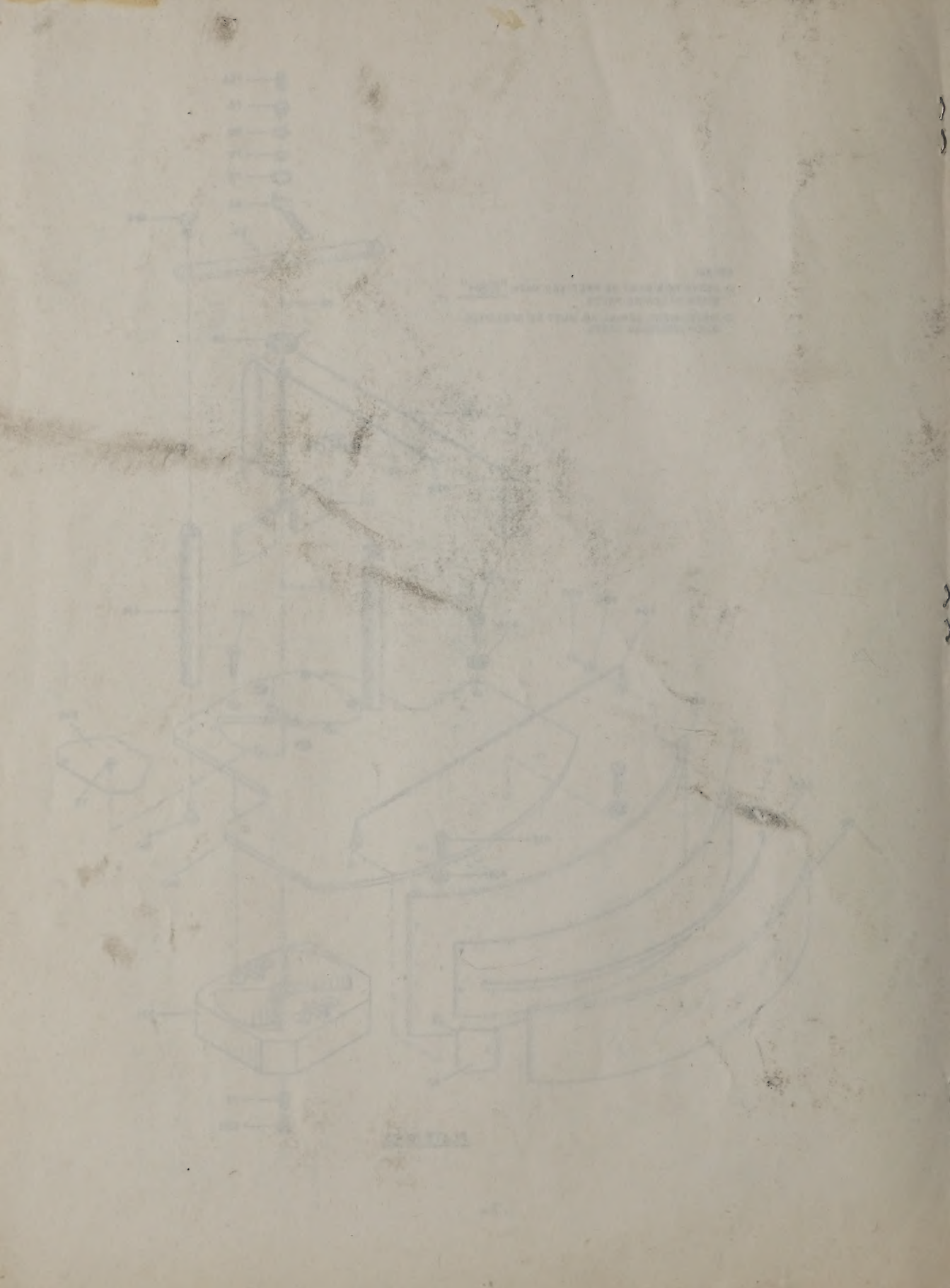
PLATE Nº 73